Rec'd Dec 27
Ans Jan 24

rec. 43 spec.
2 retn 83 sp.

Cyp is erythrostigma

A. Gray

Oaks

McHenry Co. Ill
Ringwood, Oct 17th 1849

Dr. Engelmann,

Dear Sir,

Having an opportunity to send in to St. Louis, I concluded to put up a small package of plants which I hope may prove acceptable to you. Many of them are rare & choice plants with me, and I hope that if they are not new to your collection they may be of some value. I do not know whether you care to exchange or no, You are at all events welcome to what I send you, and if you have any duplicates of interesting plants in your vicinity or Southern ones which you will send to me I will be much obliged to you.

I have been a pretty active collector for 8 or 10 years past and have in my possession the largest part of the plants of the Northern U.S. I have sent packages this season to Mr. J. Carey, and Mr. S.T. Olney, Prov. and have packages ready to send Prof. Lindley & H.P. Sartwell, Penn Yan. With these persons I have corresponded and exchanged for several years. I have also exchanged with Dr. Mead of Augusta Ill. and by my exchanges with him and my own collections in this place during the past season I am in possession of all the plants mentioned in his Catalogue with the exception of about 100 species I will give a list of those on the other page and if you can furnish me any of them you will oblige me by doing so.

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Sir enclosed Prof Gray's

Saurettia palmata
Cheiranthus hesperidoides
Cardamine Ludoviciana
Polygala incarnata
" ambigua
Paronychia Jamesii
Anychia capillacea
Oxalis corniculata
Sida dioica
Hibiscus militaris
Vitis bipinnata
" indivisa
Cardiospermum —
Phaseolus leiospermus
Psoralea onybrichis
Desmodium sessilifolium
Lespideza reticulata
Gymnocladus Canadensis
Schrankia uncinata
Rosa rubifolia
Ammania latifolia
Oenothera hirsuta & var.
Hydrangea arborescens
Bupleurum rotundifolium
Thaspium cordatum
Chaerophyllum procumbens
Cornus asperifolia
Liatris aspera
Aster fragilis
Artemisia frigida
Antennaria dioica
Hieracium longipilum
Lactuca Ludoviciana
Mulgedium acuminatum
" floridanum
Asclepias cordata
Gentiana ochroleuca
Phlox paniculata
" pyramidalis
" reptans
" acuminata
Convolvulus macrorhizus
Cuscuta umbrosa,
— vulgivaga & others
Lithospermum angustifolium
Onosmodium strigosum

Myosotis inflexa
Monarda punctata
Scutellaria nervosa
— cordifolia
Dracocephalum denticulatum
Stachys cordata
— sylvatica
Erigeron quercifolium
Solidago Riddellii sobrinus
Ambrosia bidentata
Echinacea angustifolia
Mimulus alatus
Gratiola Missouriana
— adscendoides
— Carolinensis
Chelone purpurea
Hippuris vulgaris
Gerardia auriculata
Verbena stricta
Utricularia setacea
Lysimachia hybrida
— heterophylla
Amaranthus blitum
Polygonum ramosissimum
— Persoonii
— barbatum
— lapathifolium
Allionia nyctaginea
Acalypha Carolinianaa
Euphorbia prostrata
— obtusata
— pubentissima
Croton capitatum
" ellipticum
Populus angulata
Carya olivaeformis
Veratrum angustifolium
— floccosum
Cyperus Kyllingaloides
Carex Muskingumensis
— Richardsonii
— undulata
Panicum barbulatum
Aristida pallens
Poa parviflora
— pectinacea
Koeleria nitida
Equisetum laevigatum
Chilanthes vestita

There is an intimation in Gray's Manual that you would soon publish a paper on the Cuscutinae, if you have done so, and can spare me a copy I will be glad.

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If there are any other Southern plants which you wish to possess, if they are in my collection I will gladly furnish them. I have very few duplicates of Seashore plants - & still less of Alpine.

The bearer of this letter & package Mr. Francis Swartwout, one of my neighbors, informs me that he thinks of spending the winter in St. Louis, and when he returns he will bring any thing you may have to send me. He is a stranger in the city, and if he should any advice or information which you can give him, the favor will be duly appreciated by

Yours &c

Geo. Vasey

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Geo. Engelmann M.D.

St. Louis,

Missouri.

Mr. F. Swartwout

Rec'd March 27
Ans March 30

Illinois Natural History Society,

~~Bloomington, Ill.,~~ ..... ~~1859.~~

Ringwood McHenry Co. Ill.
March 22d 1860

Dr. Engelmann,

Dear Sir,

Several years ago I had the pleasure of exchanging plants with you, and I now write again to ascertain if I could arrange another exchange with you. I am not yet provided with all the plants of the Southern and Southwestern parts of Ill. and as you probably have many that I want, and I have some that

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would be acceptable to you
I would be glad if we could
effect an exchange - or if not
convenient for you I would
enquire if you could refer me
to any other Botanist of your
region, or in the Southern or
Western States with whom I
could effect an exchange.
I enclose a list of some plants
which I would be glad to ob-
tain, and if you can supply
a part or all, and will in-
dicate what plants you would
like from me I shall be pleased
to furnish you as far as possible.
I have some prospect of travelling

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or of making frequent trips to
different parts of the State, dur-
ing the coming season, and
may be able to obtain many
things which I have not now
on hand — Any Southern
or Western plants not native
in our State would be ac-
ceptable to me —

Yours truly

Geo. Vasey

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Rec'd Oct 19th

Lowell 32 open.

McHenry Co. Ill.
Ringwood Oct 15th 1860

Dr. Engelmann

Dear Sir,

In your letter of March 30th you said you had a lot of Texan duplicates which you could send me in Exchange if I desired — I have been collecting pretty largely the past season, and have made several excursions to different parts of the State for that purpose — One to Cairo & the Ohio river, and have obtained many things that were on my list of desiderata last Spring — I append a list of the more important of my Collections for this season, and if there are any things among them that you would wish, or any other plants of this region that you desire in exchange for your Texan plants, I would be glad to furnish them to you. A few things in my list you will notice have not been detected before in our region. Any plants from the Northwest or California would be desirable to me if you have any to spare —

Yours respectfully
Geo. Vasey

P.S. I did intend to have come to St. Louis the past summer, but was not able —

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Rec'd Oct 19th

Collections for 1860 –

Carex Oederi, Carex monile, C. polytrichoides, C. Steudelii –
Pulsatilla Nuttallii – Ranunculus rhomboideus – R. cymbalarius –
Menyanthes trifoliata – Eriophorum gracile – Hippuris Vulgaris –
Sarracenia purpurea – Cypripedium candidum – Thaspium trifoliatum –
Castillcia sessiliflora – Baptisia leucophea – Lithospermum longiflorum –
Schuchzeria palustris – Polygamia Nuttallii – Aletris Michauxii –
Aceratis monocephala, A. paniculata – Aira caespitosa
Glyceria pallida – Camptosorus rhizophyllus – Tarritis glabra
Nasturtium officinale, N. lacustre, N. obtusum –
Lathyrus venosus – Potentilla palustris – Pyrola elliptica
Genm macrophyllum – Hypericum Canadense – Hypoxanthus –
Cladium mariscoides – Proserpinaca palustris –
Chenopodium glaucum – Euphorbia dentata, E. humistrata
Sagmenia macrophylla – Mimulus alatus, M. Jamesii
Tricuspis seslerioides – Rudbeckia triloba – Eclipta procumbens
Sida spinosa – Hypericum Kalmianum, H. pyramidatum & H.
Drummondii & H. sphaerocarpon. Linum angustifolium
Zygadenus glaucus – Calamintha Nuttallii – Aster plantaginoides
Rhynchospora capillacea – Hieracium longipilum – Utricularia gibba
Mentelia tamariscina – Rumex maritimus – Epilobium molle
Sporobolus heterolepis – Eleocharis intermedius –
Polygonum ramosissimum – Coriospermum hyssopifolium! –
Ellisia Nyctalea – Chaerophyllum procumbens – Arabis dentata
Isopyrum biternatum – Collinsia verna – Scilla esculenta
Aphyllon uniflora – Hydrophyllum appendiculatum – Clematis viorna
Lepidium intermedium – Lilium Catesbaei – Oxybaphus Nyctagineus

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Hedeoma hispida – Chrysopsis villosa – Chrosmodium molle
Juncus Balticus – Rhus aromatica – Panicum anceps & P.
agrostoides – Cyperus Schweinitzii – Calamagrostis longifolia
Monarda punctata – Euphorbia polygonifolia – Cakile Americana
Antronia bidentata – Liptopoda brachypoda – Croton capitatum & C.
monanthogynum – Aristida tuberculosa & A. gracilis –
Diodia teres – Enslenia albida – Conobea multifida – Heliophy-
tum Indicum – Convolvulus celestinum – Asclepias parviflora
Spermacoce glabra – Bumelia lycioides – Elephantopus Car-
Cuphea viscosissima – Taxodium distichum – Celtis Mississ.
Coccoloba Caroliniana – Pluchea foetida – Cunila Mariana –
Lespedeza repens – Uniola latifolia – Scutellaria pilosa – Cassia
obtusifolia – Helianthus microcephalus – Polypodium incanum
Pycnanthemum incanum – Ipomea pandurata & I. lacunosa –
Hydrolea quadrivalvis – Nelumbium luteum – Jussiea repens –
Iva ciliata – Hibiscus moschentus & H. militaris – Dalea alop.
Kyllingia pumila – Linnobium spongia – Trichostema dichotoma
Aralia spinosa – Helianthus mollis – Rhus copallina –

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Rec'd Jan 4th
Ans Jan 17

Ringwood Jany 1st 1861

Dr. Jno. Engelmann

Dear Sir, I have to apologize for so long a delay in replying to your letter.

My time the past fall has been very much taken up with professional & other duties, so that I have found little opportunity of attending to Botany. However I have at length put up a package for you of the plants embraced in your list of desiderata, excepting Aristida tuberculosa which proves to be only A. oligantha - I also found in Southern Ill, a grass which I could not determine - It had the appearance of an Aristida and yet was entirely destitute of the lateral awns. I sent specimens to Dr. Gray and

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last night - received from him a letter saying that the plant was Aristida ramosissima of Dr. Engelmann with the usually very short lateral awns gone altogether. He says "it is an interesting deviation, interfering as it does with the generic character. Yet it is an Aristida" - Your package was closed up but I have slipped a specimen under the outside paper which you will probably see.

My duplicates of Asclepias Nuttaliana, Torr. are exhausted and I have not met with it for ten years past. Do you still have the same view of this species as mentioned in the appendix to Dr. Gray's Manual?

Corydalis aurea I do not find in this locality, but I have a few specimens collected in New York State many years ago, which perhaps will present the form you desire - I had forgotten them until

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GORDON

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I had closed up your package and therefore enclose a specimen in this letter which I hope may come to you without much damage.

I thank you for your proposal to present my name as a correspondent of your St. Louis Academy of Science. I shall be happy to furnish them any items of interest - but I do not write much, as I have little time and not much practice. I am a member of the Chicago Academy of Science, and have written a few papers for them - but my efforts in the writing line have been chiefly to popularize botanical subjects through the "Prairie Farmer". I have for the past two years done a great deal of Botanical work for the Ill. Nat. Hist. Society, which is located at Bloomington, in connection with the State Normal University.

If you have any duplicates to spare

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Yours truly
Geo. Vasey

or send Mattoon or Jasper Illinois

P.S. Your package will be sent from Chicago by Express.

Rec'd Feb 12th
Ans April 10

Ringwood Feby 7th 1861

Dr. Engelmann

Dear Sir,

Your letter of the 16th ult. was duly received - I am glad to have your notes on the plants. My specimens of Clematis viorna are probably C. Pitcheri. I was too early for fruit - indeed only few of the plants were in bloom when I collected.

Harlem (the locality of Ellisia Nyctelea!) is the first station west of Chicago on the G.&C.U.R.R. at the place where the Road crosses the Desplaines River, on the banks of which I found the Ellisia. I will try to send you seeds.

The specimens of Corydalis aurea were from Jeff. Co. New York. I do not find any Corydalis here.

I received notice of my election

as Corresponding Member of the St Louis Academy of Sciences - for which I am much obligd to you and will endeavor to communicate something when I find anything of interest.

I enclose herewith (I forget if I sent you any of the same in the package) some specimens of what I sent to D. Gray as an Eleocharis, but which he said was Scirpus planifolius without the long leaves. I do not feel quite satisfied with that name. I sent it to Dr. Mead, He says it is not Scirpus planifolius of Muhl. "It is near Eleocharis acicularis ~~or~~ new." The bristles are barbed downward instead of upward as in S. planifolius. It grows in large patches on the ~~boat~~ wet, sandy banks of a small lake near here - and among them all I have looked in vain for any specimens with the long flat leaves

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of S. planifolius. I do not observe that the scales are prolonged into an awned tip as in that sp., nor does the stem seem to be subtended by a leaf. To my mind it is more nearly an Eleocharis than a Scirpus. But it is not any form of E. acicularis that I have ever seen ~~It~~ It is much larger & more rigid. The achenium seems to be finely striate between the ribs. Please examine it and give me your opinion of it.

The specimens I send are smaller than the average.

I also enclose a specimen of Corydalis which I have received from Mr E. Hall of Menard Co. who says, it has been introduced in his neighborhood by seed from Iowa I think. Is it your Corydalis flavidus?—

Yours truly

Geo. Vasey

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Rec - Dec - 10 14
Ans Dec 17

Ringwood Dec 6. 1861

Dr. Engelmann

Dr. Sir,

In the course of my botanical excursions the past season I met with 2 or 3 things which were new to me among the genera which I beliive are especial favorits of yours, and I enclose a specimen of each for your inspection. If it will not be troubling you too much I would be glad to have your report upon them. Although I made numerous excursions in different parts of the State, yet I did not succeed in reaching St. Louis, where I have long desired to go and make you a call. I will still hope for an opportunity next season, if life and health permit -

The most interesting plants of the past seasons collection in addition to such as I had collected previously are perhaps

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as follows: Myosurus minimus, Iris cuprea? (near Cairo) Carex Careyana, Cynthia Dandelion, Salvia lyrata, Hedia radiata, Valeriana paucíflora, Phacelia bipinnatífida, Aphyllon fasciculatum, Lerastium oblongifolium, Synthyris Houghtonian Pyrus arbutifolia, Stellaria crassifolia, Astragalus Mexicanus, Pogonia ophioglossoides Sium angustifolium, Erysimum cheiranthoides Clematis Pitcheri in fl & fr. the same as I sent to you before as C. viorna. Talinum teretifolium, Callirrhoe triangulata, Selaginella selaginoides, Eragrostis tenuis & pectinacea, Panicum autumnale Ammannia latifolia, Leersia lenticularis, Ambrosia coronopifolia, Oplotheca Floridana, Croton glandulosum, Crotonopsis linearis, Boutelona hirsuta, Echinodorus rostratus Symphoricarpus occidentalis, Conio-Selinum Canadense &c

I made an extremely fortunate excursion into Mason Co. in company with Mr. E. Hall of Athens, Menard Co, and Mr M. S. Bebb then of Springfield - Mr. E. Hall has

made some very fine Collections the
past season, as you are aware. He is
a very acute observer.

If any of the plants I have mentioned
or any other in my collection are de-
siderata to you I shall be happy to
supply you, and if you have to spare
any duplicates of Western or Texas plants
which do not grow here I would be
very glad to receive some in exchange.

I shall be much pleased to hear from
you ——

Yours Respectfully
Geo. Vasey

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Rec'd Jan 25th
Ans March 5th

Ringwood Jany 22. 62

Dr. Englmann

Dear Sir,

Your letter of the 17th. ult. was duly received, and I am greatly obligid to you for the determination of the plants sent to you. I have made up a small parcel of the plants mentioned in your letter, though I have distributed so much that I can only spare a few specimens.

The Selaginella which I called S. selaginoides, proves to be S. apus. Oplothica Floridana where I found it, had been eaten down by cattle so that I could get no good specimens. The Conio-Selinum you will find with mature fruit. I send also 2 or 3 plants not determined The Chrilanthes ~~lanuginosa~~ tomentosa? I found on

rocks at Dubuque Iowa. I send specimens a year ago to Mr D. C. Eaton, who said it was mitten C. vestita nor C. tomentosa, but he had not decided what it was, and he has not since told me. Mr. J. J. Hale of Wisconsin mentions a Cheilanthus lanuginosa as growing in that state, on the bluffs of the Miss. and I thought this might likewise be that species.

I have sent you parcel by a friend as far as Chicago, where it will be put into the Express office for St. L. and I expect you will receive it in a few days—

I shall be very glad to receive any thing you may have for me when you find it convenient.

Yours truly

Geo. Vasey

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Rec'd Oct 20th
Ans Nov 20

Ringwood Oct 18. 65

Dr. Engelmann

Dear Sir

Your favor of the 12th inst. is at hand. I am pleased to learn that you are still at work on Juncus and hope that you will soon publish your review of the genus.

After my return from St. Louis I visited the locality of the Juncus which I was refer to, but was not able to find any traces of it. The locality has been for several years under the plow — I may be able to find it next year in some contiguous place if I remain here. The locality is the banks of Fox River some 4 miles from this place — It is an open wood — I think I found the same species in Dexter, Jefferson Co. New York before I came west.

True I have not often been careful
to collect specimens complete—
but will do so hereafter—I did not
know that the rootstock furnished
such important characters.

The Juncus elongatus (which is
my own name to describe the long naked
branches) I first found on the wet sandy
borders of a small lake near here.
I think I have some specimens in
flower which I will send you by by
This Juncus grows near the little
Etc. Scirpus paucifloras so called
by Dr. Gray, of which I sent you speci-
mens. I have a specimen of S. pau-
ciflorus from Europe which I think is
different from ours—it is larger and
I judge from the appearance of the root
that it grows in boggy grounds. The
seed is not mature enough to examine.
I am inclined to think ours is a differ-
ent species— Have I ever sent

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You Artemisia Ludoviciana var. serrata? I have seen growing the var. gnaphaloides and this serrata, and am not satisfied to call them varieties The serrata appears to me a distinct species. It grows in rich low ground, reaching 5 feet in heighth, quite different from the habit of the gnaphaloides as I have seen it. Please give it your attention — I will send you some good specimens of this season's collection as soon as I can get time to make you a package.

When I was in St. Louis Dr Morse told me that he thought the Legislature of Missouri the coming winter would authorize a complete Natural History Survey of the State, and he thought that you were too much engaged with professional business to take the Botanical department of the survey and that

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he thought I might get that work. If the Legislature should authorize such a survey and you do not yourself desire the Botanical work, I would be glad of any aid you could render me in obtaining it. The work would suit me, and I want to come farther South.

You may expect to hear from me again soon ~~—~~ and receive a package —

Yours truly
Geo. Vasey

Geo Vasey

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Rec'd Nov 4th
Ans Nov 10

Ringwood Nov 2d 1865

Dr. Geo. Engelmann

Dear Sir,

Since I wrote you last week I have been thinking upon one subject that I then mentioned, and wish to say a few words more in explanation — What I said was under the impression that your age and professional duties would render it undesirable for you to take the labor of a Botanical exploration of Missouri in case provision should be made for such a work by the Legislature — On further reflection I conclude that in view of your previous labors in this department of Nature — for Missouri and the West, it would be a great injustice to pass you by in selecting an officer for the work mentioned, and although you might not be able to enter the field extensively, yet you ought to have the supervision and direction of such a work, and be permitted to select your assistant for the field service and travel in different parts of the State.

~~The~~ My remarks in the other letter touching this matter were hastily written, and I fear you will think them ungenerous toward yourself; but I hope you will accept this my apology, for I would not wilfully do injustice to any one, and especially to one who has been so kind and generous toward me. I am expecting to conclude a sale of my residence here soon, and in that event I may be in St Louis again in a few weeks and will have the pleasure of seeing you again —

Yours very truly
Geo. Vasey

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Rec'd Oct 17

Kirkwood Co 15 Oct

Dear Dr. Engelmann

My dear Sir,

I acknowledge that I have neglected you and several other botanical friends. The fact is I have not been circumstanced so as to give any attention to Botanical matters this season. I have been building a house, and in improving my place, and for want of room I have not yet unpacked my botanical Collections. I received your letter giving interesting information of the discovery of Juncus Vaseyi & also and to day brings me your letter with enquiries about Isoetes melanopoda. I cannot answer posi-

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ty until I can add
to my Collection, which will
be in about weeks — I think
it was 5 years ago last Feb'y
I collected it in Iowa — The
opinion is that Mr Hall, found
it at Athens at an earlier d.
Please excuse me dear Sir for
my apparent neglect & and
believe me that as soon as I
get arranged to that I can give
any attention to my Collection
I shall still continue my
botanical studies; and shall again
no doubt have frequent occasion
to solicit your kind aid in solv-
ing my doubts and aiding my inves-
tigations — With many thanks for your
former Kindness, and many wishes
for your Continued ~~help~~ health and
Prosperity, I remain Yours truly
Geo. Vasey

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Rec'd April 11th

Richview Ap. 10th 68

Dr. Engelmann

My dear Sir,

Yours of the 8th inst. is just received. I am pleased to hear from you, and to be remembered by you in the set of Juncí &c. Your previous kindness toward me has more than paid me for any contribution of botanical material which I have made to your collection. I again present you my thanks for the compliment you have paid me in the Juncus Vaseyi - My fellow botanists have quite generously acknowledged my labors in this way in several cases -

When I came to this part of the State I quite confidently anticipated the pleasure of frequently seeing you and enjoying ~~the pleasure~~ benefit of your botanical

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counsel and assistance.

But circumstances have seemed to interfere with all my calculations in this respect, and although my love for Botany is as strong as ever, I find it very difficult to spare the time and expense needed to indulge it.

I have recently been solicited to go with a Scientific party in this State to the Rocky Mts, during the present season, but I now doubt whether I shall be able to make the arrangements necessary for that project.

However, ~~I~~ whether I go there or not, I do expect to renew to a considerable extent my labors in the collection of plants this season.

I learn with surprise that you are going to Europe. I wish you a safe and prosperous journey, and hope in due time to welcome you home again, to renew those labors, which

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have been so abundant in the
Cause of Science.

If it had been desirable I could have spared you a lot of duplicate Junci for distribution in Europe i.e. if I had known in time to put them up. Do you think there will be any chance in Germany a Europe to sell American plants? If you find any such chance I could furnish a large number —

With my best regards
I am Yours &c
Geo. Vasey

P. S. The plants you sent have not reached me yet, they probably will in a day or two.

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Rec^d Feb 19

Richview Feby 18/70

Dr Jno. Engelmann

Dear Sir,

I called in the Custom House office today for your Package of May Rocky Mt. Plants, enclosing also a small package from Dr Torrey, of which you have forwarded Mr Notice.

The R.M. Set contains about 400 species, but as some are duplicates, and a few grasses without name, it will be fair and satisfactory to me to call them 400 species — Please look them over and if you think the set will suit for your German friend I shall be pleased to dispose of it in that way. I included also with this package a Rept Bent Grass for you

examination — viz: my Rocky Mt.
Euphorbiaceæ & Callitrichaceæ
but really I am just now so
busy that I have not time to sort
them out. Some of these Euphorb.
you will find however in this pack-
age — I hope to be in St Louis
ere long and to see you, when I
will also bring what I speak of.

Yours truly
Geo. Engelmann

P.S. I thought when I saw you
that I could make out 2 dist.
of Ilex species — But I found
that I cannot make out over
350 specis for another set. If
that will do you can inform me.
I have forgotten your number
i.e. the number of Street &c, but
presume it will make no difference

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Rec Dec 10 14
Ans — 13
11

DEPARTMENT OF AGRICULTURE.

Washington, D. C. Dec 9th 1892

Dr. G. Engelmann

St. Louis, Mo.

Dear Sir,

Your letter of the 4th inst. is received.

I have to day made a package for you of the Arcuthobia, and also of some Oaks which Dr Palmer wished to have sent to you, and you will receive the parcel through the mail. There are some Yuccas and Cactae in duplicate which are not named but are numbered. I think Dr Palmer said that specimens of all the Yuccas, Agaves & Cactae had been sent you, and you perhaps have the numbers, and can report on the names. If so I would be obliged. I think I can determine most of them by those in the Herbarium, but in fact there are some in the Herb.

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without names.

Of Cactaceae (Dr Palmer) No 131 & No 93 are without names - These are mounted, and there are also 3 specimens of Cereus with numbers or specific names.

Of duplicate Cactaceae are the following numbers 301 to 305 incl. also nos 1, 3, 4, 7, 8, 9. and Nos 123. 716. 810. 811, 846.

Dr Herb- mounted are of Yuccas, No 201- 123- 799- 5.

also one paper labeled Yucca baccata, var. and a loose paper with the specimen which is marked Yucca brevifolia.

Also a Yucca - leaves only - St George Utah. without number.

Also a paper of labeled Agave Utahensis, from St. George Utah, of which apparently are duplicates, marked Agave Utahensis.

If you cannot straighten these by reference to your specimens, I will send some of you for investigation.

Since I have been here I have prosecuted the work on the Herbarium as rapidly as my time would allow. Considerable time has to be given to investigations

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answers to inquiries, and other practical work, but still the work is progressing, and if I can have the opportunity of enlarging the Collection in some directions which I desire, I shall be pleased with the work.

With regard to the Rocky Mt. plants in your hands, I think you may as well send them to me by Express, as I can make use of them here and in my exchanges.

Yours truly
Geo. Vasey

P. S. Since I began writing this letter it has occurred to me that you perhaps wished to examine all the specimens in the Herb. I only put up the specimens collected by Dr Palmer, and one by Mr Thomas.

If you wish the others please write and inform me and I will send them.

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Rec'd Jan 13 14 1873
Ans — 21

DEPARTMENT OF AGRICULTURE.

Washington D.C. Jany 9th 1873

Dr. G. Engelmann

Dear Sir

Your letter was rec'd some time ago, but the intervention of the holidays and other matters have prevented my earlier attention — I shall send you by Express to morrow a box of the plants which you ask for.

With reference to such plants as you may desire from my packages of Rocky Mt. Specis, please take them without charge, send the fullest set, (if you have any place where you can dispose of it to Europe) for me and the remainder may be returned to me as you suggest. If you know no place where the set is desired, then return both sets to me —

Respectfully

Geo. Vasey

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Rec'd Jan 29

DEPARTMENT OF AGRICULTURE.

Washington, D.C. Jany 25th 1873

Dr. Geo. Engelmann

Dear Sir,

Your letter acknowledging the receipt of the box of plants is received.

It is indeed a pity that Dr. Palmer did not collect with more care, as the plants are from a region of so much interest.

With respect to my Rocky Mt. plants, my recollection is that in the Spring of 1869 I sent you two sets of the plants containing each between 4 and 500 Species, which I understood from letters and from a subsequent personal call at your office that you had sent to Europe, but had received no returns therefor, which you attributed to the interruptions made by the war. I did not know until your letter of Dec 4th. ult.

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that either set of the plants was yet in your hands.
If you have sent a set to Europe and rec'd
nothing for it, it is my loss.
Please retain the specimens you desire, and
return me the balance when you send the
plants belonging to the Department.

Respectfully Yours
Geo. Vasey

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Rec'd July 7th
Ans 8

Department of Agriculture.

Washington, July 3d 1873

Dr. Geo. Engelmann

Dear Sir

Permit me to enquire if you are ready to return the packages of plants sent to you last winter at your request. I am desirous of bringing into order that part of our Collection represented by those plants, and shall be pleased to see the result of your revision of the specimens. The package may be sent to the Dept. by Express, charges payable here. I had the pleasure of a very pleasant visit from Dr. Gray last spring. Dr. Palmer has been in frequently to enquire about his specimens of Cacti &c., and he has now gone with Prof. Baird on the Fish Commission, to the Coast of Maine. Respy. Yours

Geo. Vasey

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Rec Dec 24
Ans Jan 28

Department of Agriculture.

Washington, Dec 22 5 1873

Dr. G. Engelmann

Dear Sir,

It is now about one year since this Dept. sent you, at your request, a box of botanical specimens for investigation, and you will permit me to call your attention to the fact that they have not yet been returned. They are now needed to supply their place in the general Herbarium of the Department. Undoubtedly amid your numerous labors they have been overlooked or forgotten. If you have completed their examination will you have the kindness to forward them to this Department.

Yours respectfully
Geo. Vasey

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Rec'd Febr 14th

Department of Agriculture.

Washington, Feby 12th 1874

Dr. Geo. Engelmann

St. Louis, Mo.

Dear Sir,

Your letter of the 28th ult was duly received and would have been sooner acknowledged, but I waited, expecting the arrival of the plants which you mentioned as returning, but as they have not yet come to hand I will not wait longer.

I am very glad that you corrected my recollection as to the quantity of R. M. plants sent you. My letters with reference thereto were left in Ill. and I could only state from memory. I do not wish you to feel under any obligation to take the plants, although if you find them satisfactory for your own

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use, I shall be very glad of that disposition of them. If however you prefer to return the plants, you are at liberty to do so. The price was as you state, and the remittance is satisfactory.

As to the Junipers in our Collection – we have no specimens of Dr Newberrys collecting, but we have several of Fremonts, from Klamath Lake and the Cascade Mts, which being ~~the~~ the region of Newberry's, it may be that they are the same species, and I send them to day for your examination – We have others from California & New Mexico, ticketed J. occidentalis, but I suppose you have similar ones.

Yours very truly

Geo. Vasey

P. S. I have just up the package snugly and commit it to the mail.

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Rec^d March 27
Ans^d April 11

Department of Agriculture.

Washington, March 24th 1875

Dr Jos. Englemann

Dear Sir

Yours of the 18th inst
rec^d, I have been quite too negligent in acknowledging the receipt of your box of plants — One reason was that I had a specimen of Abies to send you, and I was waiting until I should have something more to add — I am very much obliged for the naming of our Leucothoeas &c — They will fill a gap in our Herb. Dr. Gray has been here a few days on his way to Georgia for his health — I am very sorry to see the Dr in poor health, but hope that he will recruit in the milder climate to which he is going — He was to leave this morning.

I am to make a collection of sections and specimens of forest trees of the U.S. for the Centennial Exp. I have written to Dr Cooper in Cali-

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forma to obtain his help - I shall have to apply in a great many directions. Who can I get to provide sections of the Coniferæ of Colorado? I also want Cones to correspond

Yours truly
Geo. Vasey

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Rec'd June 25
Ans — 28

Department of Agriculture.

Washington, June 22nd 1875

Dr G. Engelmann

Dear Sir

Your Card of the 19th inst rec'd. Saxifraga Forbesii was described and published in the "Entomologist & Botanist" Vol. 2. No 9. P. 288. July & August 1870; It grows in such situations as you mention. I send you to day a package containing a specimen of the plant from the locality mentiond — also 2 other plants, a Heuchera Rydbii and a var. of Dodecatheon from the same locality. Also a few plants for name, from a collection of Dr Smalls made in Arizona. As soon as I can find a small box suitable I will send a cone of an Abies from California of which I wish the name.

I am getting along well I think with the Collection of ~~the~~ forest trees of the U.S. for A.W. Curtiss

is collecting in the Southern States — In California is my Son assisted by Dr Kellogg — In the Sierra Nevada Mr J. G. Lemmon — In Southern California (at San Diego) and through Arizona & the Mexican border Dr E. Palmer — Mr Bucklie in Texas, Some also from Dr Lindheimer — in Illinois Mr J. Wolfe, who will also go into Colorado in August, and who will call on you for such information as you may furnish him as to the localities of Colorado conifers —

Yours truly
Geo. Vasey

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Rec Nov 22
Ans same day

INTERNATIONAL EXHIBITION OF 1876.

Board on Behalf of U. S. Executive Departments.

U. S. DEPARTMENT OF AGRICULTURE.

Washington, D. C., Nov 19th 1875

Dr. Geo Engelmann

Dear Sir,

Dr Palmer's collection made near San Diego has come in, and there are many good things — Some fine specimens of Pinus monophylla which are monophyllous throughout. I think it must be kept separate from edulis. of Pinus Torreyana he only sends 2 specimens of the twigs and no cones — he says none could be found. Pinus Lambertiana & P. ponderosa are the other Pines — He sends as Abies Douglasii the var. macrocarpa which we have had under discussion. The sections have not yet arrived, but will be here soon — Since I wrote you last I have found a cone of this same from collected by Dr Newberry at San Felipe, Cal. and called A. Douglasii var. with large cones and reference made to the same in Ives Colorado Expedition. There are some good twigs from Dr Palmer which I imme-

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diately glued down to save the leaves from dropping, and will send you a specimen.
I think there is as much difference between the 2 forms as there is between some others called different species.

Mr Lemmon has sent me, and you also he days, a package of twigs of what I take to be Abies grandis, although I am not yet able to distinguish this from amabilis by the leaves.

Pinus flexilis from Oregon & Idaho, characterized by the red cones, with very thick and close scales, seems different from P. flexilis from Utah.

The Utah collection is in and we have a good quantity of Abies Douglasii & Menziesii, some Engelmannii & grandis probably.
also Pinus flexilis, ponderosa & edulis.
Some of them I shall by & by send you for identification.

Yours truly
Geo. Vasey

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Rec'd Oct 11th

Ans Same Day

Department of Agriculture.

Washington, Oct 7th 1875

timber?

Dr G. Engelmann.

Dear Sir

Your letter of the 4th inst is at hand. I will cheerfully give you all the aid in my power with respect to the Abies. One of the Commissioners of the Centennial Exp. lives at Portland Oregon and he ~~&~~ with the aid of a resident botanist there has agreed to furnish me specimens and sections of the trees of that region including the Abies grandis, but as I have not asked him for all the particular points on which you wish information I will write him again to day and particularly call his attention to those matters and hope to succeed in procuring all that you desire. Mr. Wolf was mistaken with respect to the size of sections. He based his notion upon the fact that some 2 years ago I had directed him to procure me sections of the size you mention Unfortunately my new instructions did not reach Canton until he had left for the Southern part of the State but he is to revisit that locality and make new

sections to correspond with the others which are being made, which are 2½ ft long & 12 to 15 in thick. Mr Lemmon has made some cuneate sections like what you describe of large trees, but complains greatly of the immense work which it requires. But the getting pieces of bark from old and young trees can be attended to with comparative ease and I will give instructions with reference to it whenever it is not too late. The collector who was in Utah has returned having made good sections such as I above have described, but without extra specimens of the large bark. However he observed very carefully and collected abundance of cones and when they arrive I will furnish you any that you desire. He was not able to corroborate all that Mr Watson say in his Report, and thinks there are more species than he describes. But of that I will write hereafter. I have recvd a letter from Mr Ring near Sonoma Pap, Cal. in reference to the Abies of which he sent cones This letter I have unfortunately mislaid, but he says that the trees have not borne fruit this year. He thinks they overbore themselves last year. But he says he is acquainted with the Douglas Spruce of Oregon and that this is

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Yr Geo Vasey

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